1	UNITED STATES OF AMERICA
2	ENVIRONMENTAL PROTECTION AGENCY
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12	PUBLIC COMMENT ON CERTIFICATION OF WASTE ISOLATION
13	PILOT PROJECT
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15	CARLSBAD, NEW MEXICO JANUARY 5, 1997
16	6:00 P.M.
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19	EPA PANEL: RICHARD WILSON
20	LARRY WEINSTOCK
21	FRANK MARCINOWSKI
22	MARY KRUGER
23	
24	
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JANUARY 5, 1997 - CARLSBAD, NEW MEXICO SANTA FE DEPOSITION SERVICE (505) 983-4643

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- 2 MONDAY, JANUARY 5, 1997, 6:00 P.M.
- 3 MR. WILSON: Thanks for coming. I'm Dick
- 4 Wilson from EPA in Washington. I have a little
- 5 prepared statement to go through with kind of
- 6 introducing people, talking a little about the format
- 7 we're going to use tonight, and giving a little
- 8 background for those of you who aren't as familiar as
- 9 others are about the background of these hearings.
- 10 So, again, welcome to the United States
- 11 Environmental Protection Agency's public hearing to
- 12 receive comments to our proposed decision to certify
- 13 that the Department of Energy's Waste Isolation Pilot
- 14 Plant, or WIPP, is in compliance with the EPA's
- 15 radioactive waste disposal standards. I'm Richard
- 16 Wilson, the Acting Assistant Administrator of the EPA'S
- 17 Office of Air and Radiation. I'm also the presiding
- 18 officer for today's hearing.
- 19 Before taking comments, as I mentioned first
- 20 I want to go through a few procedural items and then
- 21 talk some about the background, first introducing the
- 22 other EPA panel members.
- 23 To my left is Larry Weinstock, Acting
- 24 Director of the Office of Radiation and Indoor Air,
- 25 Frank Marcinowski, Acting Director of the Radiation

- 1 Protection Division.
- 2 Mary Kruger, on my right, Acting Director of
- 3 the Center for the Waste Isolation Pilot Plant project.
- 4 Now a few of the background rules for the
- 5 hearing.
- 6 In this public hearing it's an informal
- 7 hearing. We are not going to swear people in, not
- 8 going to have cross-examination. Speakers are going to
- 9 present their statements and may or may not be
- 10 questioned by members of the hearing panel.
- 11 We are here to listen to your comments. A
- 12 court reporter is here to produce a transcript of
- 13 today's proceedings. If you have a written copy of
- 14 your statement, we will accept it. When you jare
- 15 called to testify, I'm going to ask all the speakers to
- 16 identify themselves clearly for the court reporter,
- 17 spelling their names, and speaking slowly and clearly.
- 18 And we will holler, or the court reporter will holler
- 19 if we need to you say it again or speak slower.
- 20 Individuals are going to be allowed five
- 21 minutes to testify on their own behalf. People
- 22 representing an organization will be allowed ten
- 23 minutes.
- 24 The purpose of this hearing is to solicit
- 25 public comment on our proposed decision to certify that

1 the WIPP is in compliance with EPA's radioactive waste

- 2 disposal standards, and I'd ask people to please
- 3 confine their comments to that subject.
- We will be here -- I think we have people
- 5 scheduled through about 8:20 this evening; we are
- 6 scheduled to be here to 9:00. And there may be others
- 7 who come in who hadn't called beforehand, and we will
- 8 be happy to hear anybody who has comments to make after
- 9 the people who are already scheduled have a chance to
- 10 testify.
- 11 Only those registered in advance are
- 12 guaranteed a chance to testify, but those who didn't
- 13 may register at the table outside the door if you
- 14 didn't do that on the way in, and we will have time
- 15 tonight to hear anybody who didn't sign up but does
- 16 have comments to make.
- 17 We're going to use a timer similar to, I
- 18 guess, a traffic light. When you begin the statement
- 19 we'll start the timer. A green light will come on.
- Is it going to work that way?
- 21 MR. SMEGAL: Yes. Right up there.
- MR. WILSON: And when you have three minutes
- 23 left the light turns yellow. Then the speaker should
- 24 start their closing remarks. And when the time has
- 25 elapsed, the light will turn red, and I'll ask you to

1 stop and conclude quickly, even if you have a lot more

- 2 to go.
- 3 Out of respect for everybody else's opinions,
- 4 please abide by the time limits so we get the maximum
- 5 number of people a chance to be heard.
- I remind people that we gladly accept written
- 7 comments today, or at the EPA docket by February 27th
- 8 of this year, 1998. That means anything you don't get
- 9 to say today, or anything you want to say in response
- 10 to what somebody else says may be submitted in writing
- 11 for our consideration. And we'll read and react to
- 12 every comment that we get both here in and writing.
- 13 Please see the information table outside in the hall or
- 14 refer to the flyer you were handed on the way in for
- 15 the docket locations and hearing ground rules.
- 16 The transcript from today's hearing will be
- 17 available for review in each of the docket locations in
- 18 about two or three weeks.
- 19 Finally, let me do a little background about
- 20 our proposal.
- 21 In 1992 Congress required the EPA to ensure
- 22 the safety of the WIPP site. In response, EPA set
- 23 disposal standards in 1993 requiring DOE to demonstrate
- 24 that the WIPP would be a safe disposal facility for
- 25 thousands of years into the future.

1 In February of 1996 EPA followed those

- 2 general standards with more specific Compliance
- 3 Criteria related to the WIPP site itself. The
- 4 Compliance Criteria clarify the requirements of the
- 5 radioactive waste disposal regulations and require that
- 6 DOE provide EPA with specific types of information in
- 7 its Compliance Certification Application.
- 8 In October of 1996, EPA received DOE's
- 9 Compliance Certification Application and immediately
- 10 began its review for completeness and technical
- 11 adequacy. In November, 1996 we announced that the
- 12 Application had been received, solicited comments on
- 13 the application, and announced the Agency's intent to
- 14 conduct a rulemaking. This began a 120-day public
- 15 comment period on DOE's application. Public hearings
- 16 to obtain comments on the application were held in New
- 17 Mexico in February of 1997.
- 18 Then in May of this past year, in 1997, we
- 19 determined that DOE's application was complete, and by
- 20 law EPA has one year from this date, or until May of
- 21 1998, to make the final decision on certification.
- We have consulted with scientific experts and
- 23 the people of New Mexico prior to issuing a proposed
- 24 decision. We have reviewed the information on the
- 25 WIPP's ability to safely contain radioactive waste,

- 1 and, as required by EPA standards, DOE has had the
- 2 necessary portions of the application peer reviewed by
- 3 independent experts.
- 4 On October 30, 1997, EPA issued a proposed
- 5 decision that WIPP will comply with the requirements of
- 6 our Radioactive Waste Disposal Regulations and
- 7 Compliance Criteria. We are also proposing that DOE
- 8 meet four conditions for certification. First, that
- 9 EPA must approve the execution of the waste
- 10 characterization activities, including determination of
- 11 the radionuclides and other contents of waste disposal
- 12 containers currently stored at waste generator sites
- 13 before the containers are allowed to be transported to
- 14 WIPP for disposal.
- 15 EPA must also approve -- the second
- 16 condition -- the establishment and execution of quality
- 17 assurance programs for waste characterization
- 18 activities before the containers are allowed to be
- 19 transported to WIPP for disposal. Quality assurance
- 20 programs will confirm that waste characterization is
- 21 done properly.
- 22 The third requirements is DOE must submit to
- 23 EPA prior to closure of WIPP a detailed plan and
- 24 schedule for implementing passive institutional
- 25 controls, including an elaborate marker system intended

1 to warn future generations about the hazards of the

- 2 radioactive waste buried in the WIPP.
- 3 And the fourth requirement was the DOE seal
- 4 waste storage panels within WIPP with strong concrete
- 5 barriers that are engineered to contain hazardous
- 6 materials.
- 7 Having proposed our decision, we are here in
- 8 New Mexico this week to obtain feedback from New Mexico
- 9 citizens on this proposed decision. As I mentioned
- 10 earlier, we are also accepting written comments to our
- 11 proposed decision, and all written comments must be
- 12 received in our docket by February 27, 1998. Again, I
- 13 reassure all of you that all written comments and oral
- 14 comments will be carefully considered before we make
- 15 our final decision on whether the WIPP complies with
- 16 EPA regulations.
- 17 On behalf of EPA I want to thank you for
- 18 making the effort to come out tonight, and with that
- 19 we'll begin hearing witnesses.
- The first signed up is Mike McFadden of DOE.
- 21 MR. McFADDEN: I'm Mike McFadden,
- 22 M-c-F-a-d-d-e-n. I'm with the Department of Energy in
- 23 the Carlsbad area office. I'm one of the assistant
- 24 managers.
- 25 As the first person to speak from Carlsbad,

- 1 let me welcome you to Carlsbad, New Mexico. I think
- 2 you would find the people here are very friendly and
- 3 very interested in your proposed ruling.
- 4 The EPA's level of involvement and commitment
- 5 to proposing certification for WIPP has been
- 6 unprecedented in the annals of federal regulatory
- 7 oversight. This process you, the EPA, have been
- 8 conducting for almost three years has been thorough,
- 9 comprehensive, and performed with the highest degree of
- 10 professionalism and broadest level of public
- 11 involvement the DOE has ever witnessed. I would like
- 12 to use my allotted time to remind you and the audience
- 13 just how substantial EPA's commitment has been.
- 14 First of all, the EPA is mandated by Congress
- 15 to issue general safety and environmental protection
- 16 standards for disposing of nuclear waste by the Nuclear
- 17 Waste Policy Act of 1983. EPA did their homework and
- 18 promulgated 40 CFR 191, a landmark regulatory action
- 19 which showed the world that containment and isolation
- 20 of very long-lived nuclear waste could indeed be
- 21 regulated, and that the protection of human health and
- 22 the environment could be assured.
- 23 40 CFR 191 established containment and
- 24 environmental protection standards for any generic
- 25 nuclear waste repository. EPA's commitment to ensuring

- 1 that, specifically, the WIPP repository would meet
- 2 these standards was established by the Land
- 3 Withdrawal Act of 1992. Therein, Congress asked the
- 4 EPA to establish criteria by rulemaking to implement
- 5 and interpret the general requirements of 40 CFR 191
- 6 specifically for WIPP.
- 7 EPA again did its homework, and published,
- 8 via a thorough public rulemaking process, the criteria
- 9 for certifying WIPP's compliance with the 40 CFR 191
- 10 standards. These criteria were laid out in the
- 11 40 CFR 194 published in February of 1996.
- 12 The EPA went the extra mile by developing a
- 13 Compliance Application Guidance Document to provide
- 14 detailed guidance on the submission of a compliance
- 15 application. EPA developed this guidance to assist DOE
- 16 with the preparation of its application and, in turn,
- 17 to assist EPA's review of the application for
- 18 completeness, and to enhance readability and
- 19 accessibility for the application for EPA and public
- 20 review.
- 21 Subpart D of 40 CFR 194 establishes a
- 22 compliance process that goes well beyond the minimal
- 23 requirements of the Administrative Procedures Act.
- In the Land Withdrawal Act the Congress
- 25 insisted that EPA's certification decision be conducted

- 1 by informal or notice-and-comments rulemaking, which,
- 2 under the Administrative Procedure Act, only requires a
- 3 notice of proposed rulemaking, an opportunity for
- 4 public comments on the proposed rule, and a general
- 5 statement of the basis and purpose of the final rule.
- 6 Recognizing the profound importance of its
- 7 decision, especially the importance to the citizens of
- 8 the State of New Mexico, EPA compliance process under
- 9 subpart D of 40 CFR 194 calls for an initial review and
- 10 public comment period on DOE's application. You
- 11 allowed 120 days of public comment versus, typically, a
- 12 60-day period. In addition, a second 120-day public
- 13 comment period on EPA's proposed ruling is now in
- 14 progress.
- 15 As I stated before, this level of public
- 16 involvement is unprecedented. Not only did EPA allow
- 17 two extra-long public comment periods instead of a
- 18 single shorter period, it kept going that extra mile by
- 19 actively seeking out the public's view by meeting with
- 20 various stakeholders during the first public comment
- 21 period on DOE's application. EPA staff didn't just
- 22 invite stakeholders to Washington D.C. to hear their
- 23 views, they traveled to New Mexico and set up meetings
- 24 to inform the themselves of all stakeholder issues
- 25 without any DOE presence. I understand the EPA has

- 1 recently held a second round of private stakeholder
- 2 meetings to elicit the public's concerns over the
- 3 proposed rule to certify the WIPP.
- 4 This kind of aggressive seek-out-and-poll
- 5 regulatory approach is exemplary. By DOE's count, the
- 6 EPA received over 800 written and oral comments on
- 7 DOE's application and EPA's completeness determination.
- 8 Let me now congratulate you on the
- 9 thoroughness of the EPA's evaluation of the material in
- 10 the DOE application.
- 11 DOE believes that our application is the most
- 12 comprehensive application for regulatory approval that
- 13 EPA has ever received. With about 24,000 pages of
- 14 detailed technical material, its review and
- 15 understanding represents an enormous effort.
- 16 EPA met that challenge. Over the period from
- 17 October, 1996, through March, 1997, EPA requested
- 18 additional information from DOE as it reviewed the
- 19 application. DOE's responses to these requests were
- 20 made as quickly as possible as the material became
- 21 available. About 100 individual requests were made
- 22 with several thousand pages required for our response.
- 23 An exemplary adjunct to the EPA's review of
- 24 the application was their design and conduct of the
- 25 Performance Assessment Verification Test. The

1 probabilistic Performance Assessment in our application

- 2 is a complex series of models and computer codes that
- 3 demonstrate that WIPP will meet the criteria of
- 4 40 CFR 191 over the regulatory period of 10,000 years.
- 5 Recognizing the importance of their
- 6 certification decision, EPA elected to conduct an
- 7 independent test to stretch the limits of DOE's
- 8 Performance Assessment by changing parameter values and
- 9 ranges. Many of these changes were linked to
- 10 suggestions resulting from public review of our
- 11 application. EPA's Performance Assessment Verification
- 12 Test moved the compliance curves but still demonstrated
- 13 compliance with the 40 CFR 191 criteria with a
- 14 substantial safety margin.
- 15 EPA's elective decision to undertake such a
- 16 complex independent evaluation is testimony to their
- 17 commitment to ensure the certification is made
- 18 correctly and defensibly.
- Based on all the above, EPA proposed to
- 20 certify WIPP and enter a second 120-day public comment
- 21 period on the proposed rule. EPA developed a
- 22 comprehensive Compliance Application Review Document,
- 23 called CARD, for each and every section of 40 CFR 194.
- 24 Each CARD details the logic and information EPA used
- 25 to evaluate WIPP's compliance with that section. In

- 1 addition, EPA developed technical support documents for
- 2 each CARD which presents the details and back-up
- 3 calculations of EPA's analysis. All this material was
- 4 developed before the proposed rule was announced and
- 5 was placed on the docket sso the public could review
- 6 the entire basis of EPA's proposal during the entire
- 7 120-day comment period. This dedication to keeping the
- 8 public informed is commendable.
- 9 In addition, EPA has taken other measures to
- 10 assure that the public is involved in the rulemaking.
- 11 EPA allowed the New Mexico Environment Department, the
- 12 Environment Evaluation Group, and the New Mexico
- 13 Attorney General's Office to observe meetings between
- 14 EPA and DOE staff to discuss technical issues during
- 15 the pre-proposal period. EPA has summarized all
- 16 meetings between EPA and DOE and placed them in the
- 17 public docket. While these actions are not required,
- 18 EPA believed that they could be useful to the public.
- 19 In summary, I commend EPA on its thoroughness
- 20 and the professionalism with which it has conducted its
- 21 evaluation of our application. The record is clear:
- 22 EPA's proposed decision to certify WIPP has been based
- 23 on the most comprehensive regulatory effort DOE has yet
- 24 seen on the part the Agency. It has been conducted in
- 25 an atmosphere of extraordinary visibility, and the

- 1 public has been given every possible opportunity to
- 2 influence the results every step of the way.
- 3 Thank you very much.
- 4 MR. WILSON: Thank you very much for coming.
- 5 We're having problems with our timer, I guess. Not that
- 6 the speaker took too much time, but we haven't gotten
- 7 the lights to work.
- 8 The next person to sign in is Benny Hooda.
- 9 MR. HOODA: I don't have a prepared
- 10 statement, so I'm just going to talk offhand.
- 11 My name is Benny Hooda, and I work for
- 12 Westinghouse-WIPP, and the Environmental Monitoring
- 13 Program. We monitor the environment for air, water,
- 14 soil, and any other thing that might be dispersed into
- 15 the environment. Basically, we comply with DOE 10 CFR
- 16 834 and EPA 40 CFR 61, subpart H.
- 17 That's basically effluent hazards that might
- 18 be associated with the environment.
- 19 The other part that is -- we have been doing
- 20 the baseline study, I guess since '82, and we have the
- 21 data available, which we publish in the annual Site
- 22 Environmental Report. That is -- if the public wants
- 23 to view those data, that is available in the library,
- 24 as well as we can put you on our mailing list and you
- 25 can review that data to scrutinize, or look for

- 1 information.
- 2 Basically, I just want to affirm that we have
- 3 a very good program in monitoring the environment, and
- 4 we comply with the 100 millirem limit for the public,
- 5 and if there is -- even 1,000 percent closer to that
- 6 limit, we take administrative, as well as ecological
- 7 action; that is, we do our best to develop the best
- 8 available technology on the screening for the
- 9 radionuclides.
- 10 That's all I have. Thank you.
- 11 MR. WILSON: Okay. Thank you very much for
- 12 coming and for your statement.
- Next, Mayor Gary Perkowski.
- Mayor, we want to thank you and all the
- 15 citizens for this nice place have the hearing, and for
- 16 your hospitality.
- 17 MAYOR PERKOWSKI: We want to welcome you to
- 18 Carlsbad. Thank you very much for being here. We have
- 19 had a good had relationship with the EPA over the
- 20 years. We have worked very closely with them, and we
- 21 think it's been a very good process, and thank you.
- 22 My name is Perkowski, P-e-r-k-o-w-s-k-i,
- 23 Gary, and I'm the mayor of the City of Carlsbad.
- 24 First of all, again I'd just like to thank
- 25 the EPA for all the work they have done.

- 1 As I say, Mr. Weinstock, myself, and some of
- 2 the others members of the EPA have worked very closely
- 3 to ensure the safety of this project for the citizens
- 4 of this community. We have worked closely with both
- 5 the EPA and with DOE to make sure it is.
- 6 My No. 1 concern, and the major concern of
- 7 the City Council, is to make sure this is a safe
- 8 project. We want to do anything we can to ensure that
- 9 safety, and protect our citizens. And we think that
- 10 has happened.
- 11 We have been the host community for the last
- 12 25 to 30 years, and we are proud to be at the forefront
- 13 of the efforts to safeguard the citizens of this
- 14 country from the hazard of the transuranic waste. We
- 15 are proud we are the community that was willing to take
- 16 the first critical step that will lead to the solving
- 17 of our nation's nuclear waste problem.
- 18 Twenty five years ago one of my predecessors
- 19 or the other representatives of the City of Carlsbad
- 20 had invited federal officials to Carlsbad to look at
- 21 and discuss the possibility of locating the nuclear
- 22 waste repository in the salt beds that surround the
- 23 City. That as after the site in Kansas was turned down
- 24 for various reasons.
- We have been through the business of working

- 1 through the salt in potash mining for many, many years,
- 2 and the people in this community were very well aware
- 3 of the qualities that were displayed in salts and the
- 4 things that could be done with salts, and what was
- 5 possible at that time.
- 6 Since that first invitation, we have
- 7 supported this project and feel strongly that WIPP can
- 8 safely isolate the transuranic waste forever, much less
- 9 meet the 10,000 years as required by EPA. We think it
- 10 is a very good project and the waste can be totally
- 11 isolated and safe for the citizens of the country much
- 12 better than the way we are storing it at the present
- 13 time, which is temporary and in concrete pads, et
- 14 cetera, at various sites around the country.
- 15 The project has been ready to open for the
- 16 last seven years and has been engineered and studied by
- 17 some of the best scientific minds in our country and
- 18 the world. We feel the allegation with most of those
- 19 people is it is a very safe project and is ready to
- 20 start accepting the wastes from around the country.
- 21 It's time to stop wasting the taxpayers' money on these
- 22 trivial details and further scrutiny. It is time to
- 23 open the WIPP and use it for its intended purpose.
- As mayor of this community, I would again
- 25 like to congratulate EPA for the review of the project.

- 1 It is vitally important to the citizens of this
- 2 community that the WIPP be safe, not only the project
- 3 but the transportation and other things, and we feel
- 4 all of those meet the criteria, are very safe, and we
- 5 are willing to take it in our community.
- 6 We were pleased by EPA's announcement this
- 7 past October that the agency proposed to certify the
- 8 WIPP's compliance witwh the long-terms disposal
- 9 standards for transuranic waste. It is strongly urged
- 10 that any unnecessary redundant requirements are removed
- 11 and EPA issue the final certification for the WIPP as
- 12 soon as possible.
- 13 The project is ready, the community is ready,
- 14 and the nation desperately needs the project to open.
- 15 Carlsbad is ready to fulfill its commitment to the rest
- 16 of this country and help to protect future generations
- 17 from the nuclear storage of transuranic waste.
- 18 We think the project is ready to open. Thank
- 19 you very much for your time. Welcome to Carlsbad.
- 20 MR. WILSON: Thank you, Mayor. As you
- 21 probably know, our schedule is to have a final decision
- 22 on this matter from EPA'S standpoint by May. So we are
- 23 moving promptly.
- 24 MAYOR PEROWSKI: We appreciate that, and we
- 25 appreciate how prompt you have been with the amount of

- 1 work you have had to do to get through all the
- 2 documents presented.
- 3 MR. WILSON: And thank you and the community
- 4 for your help.
- 5 MAYOR PEROWSKI: If we can help you in any
- 6 way while you are here, let us know.
- 7 MR. WILSON: Thank you.
- 8 Next I have Representative John Heaton.
- 9 (Note: No response.)
- 10 Next I have Tracy Hill.
- MS. HILL: Good evening.
- 12 You have to pardon me. I came down with a
- 13 sinus infection, so I brought my water bottle just in
- 14 case.
- 15 I appreciate the opportunity to stand before
- 16 you tonight to offer my views on the U. S.
- 17 Environmental Protection Agency's --
- 18 (Note: Reporter interruption.)
- MS. HILL: I appreciate the opportunity to
- 20 offer my views on the U.S. Environmental Protection
- 21 Agency's Proposed Certification decision for the Waste
- 22 Isolation Pilot Plant. I am representing the Chamber
- 23 of Commerce as its Executive Director.
- 24 As a newcomer to Carlsbad, I am very
- 25 impressed with the Waste Isolation Pilot Plant and its

- 1 mission to safely and permanently dispose of
- 2 radioactive transuranic waste.
- 3 The Carlsbad Chamber of Commerce is pleased
- 4 by the Environmental protection Agency's proposal to
- 5 certify the WIPP's compliance with the long-term
- 6 disposal standards of radioactive waste.
- 7 The WIPP is a well-thought-out solution that
- 8 has evolved over the past 22 years with a foundation of
- 9 top scientific and engineering minds and national
- 10 research organizations. Independent groups and the
- 11 public have scrutinized the project from all angles.
- 12 The WIPP is a carefully, deliberately designed,
- 13 developed and implemented facility, closely audited by
- 14 domestic and international experts the in nuclear
- 15 watste and mining technology.
- 16 Some 25 years ago the representatives of the
- 17 City of Carlsbad invited federal officials to visit
- 18 Eddy County and discuss the possibility of locating a
- 19 nuclear waste repository in the saltbeds that lie to
- 20 the east of the city. Over the years, the people of
- 21 Carlsbad have come to know the Department of Energy as
- 22 an agency committed to the safe, environmentally
- 23 responsible operation of the WIPP.
- 24 As teh host community for this project,
- 25 Carlsbad wishes to stand up and be counted as the city

- 1 that took the first critical step towards solving the
- 2 nation's nuclear waste problem. The WIPP, the
- 3 Department of Energy, and Westinghouse are good
- 4 neighbors. I, along with the Chamber and the 425-plus
- 5 Chamber businesses and individuals who are associated
- 6 with the Chamber, urge the EPA to issue a final
- 7 certification decision as soon as possible. With final
- 8 EPA certification the WIPP can start doing what it is
- 9 so very capable of doing: Protecting our nation's
- 10 people and the environment from transuranic waste, and
- 11 eliminating the risks associated with this waste
- 12 sitting in temporary storage.
- 13 This is an important time for Carlsbad and
- 14 the citizens of this nation. Thanks to the EPA's
- 15 preliminary proposed rule, which represents its
- 16 decision to certify the WIPP, we have within our grasp
- 17 a solution to an environmental problem that affects
- 18 more than 50 million Americans. It has taken more than
- 19 two decades of world-class science to get to this
- 20 point. No other public project in recent history has
- 21 been studied like the WIPP has. The facility is
- 22 scientifically and technically sound. It meets all
- 23 applicable federal nuclear waste disposal standards.
- 24 We cannot afford to delay any longer. The time to deal
- 25 with the transuranic waste problem is now.

1 In closing, I strongly urge the EPA to remove

- 2 unnecessary, redundant requirements and issue final
- 3 compliance certification for the WIPP.
- 4 One possible example of redundancy in the
- 5 requirements might be Conditions 2 and 3 of the EPA's
- 6 proposed decision to certify the WIPP. The DOE's
- 7 processes and requirements for certifying each waste
- 8 generating site are quite stringent. Adding additional
- 9 oversight, rulemaking and public comment periods to the
- 10 rulemaking process will do nothing to improve the
- 11 protection of human health and the environment.
- 12 Thank you.
- MR. WILSON: Thank you.
- 14 Next I have Senator Carroll Leavell.
- 15 (Note: No response.)
- 16 I understand Representative John Heaton --
- 17 REPRESENTATIVE HEATON: Perfect timing.
- 18 MR. WILSON: Welcome.
- 19 REPRESENTATIVE HEATON: Thank you.
- You must be ahead of schedule.
- 21 MR. WILSON: We are a little ahead of
- 22 schedule.
- 23 REPRESENTATIVE HEATON: Okay. My name is
- 24 John Heaton. I'm State representive for District 55.
- 25 WIPP is in my district, and that district is comprised

- 1 of 23,000 people that I represent in the district.
- When I look back on this occasion, in
- 3 thinking that it might be, hopefully, the last time we
- 4 testify in a hearing before EPA, I sort of become
- 5 nostalgic after some 22 years of doing this. I don't
- 6 know how many times we have done it, maybe 70 or 80
- 7 altogether, but a lot of hearings through that period
- 8 of time.
- 9 When I look back, also I think of a trip
- 10 maybe four years ago when we visited with EPA, and I
- 11 think we tried to -- when we went to Washington, we
- 12 tried to visit with EPA each time we went to try to get
- 13 their perspective on where things were, the community
- 14 primarily being very interested in safety factors and
- 15 those issues associated with WIPP. But I think that
- 16 might have been one of the most important visits that
- 17 we made, in that I think that DOE at that time was off
- 18 on their tangent and EPA was going on their tangent,
- 19 and it was helpful, I believe, for us to hear both
- 20 perspectives and go to both parties and say, "You need
- 21 to come to the table."
- 22 And I think that that was perhaps one of the
- 23 most important meetings that we attended, and
- 24 subsequently it became codified in the amendment to the
- 25 Land Withdrawal Act.

- 1 But I have sat through almost all of the
- 2 scientific presentations that were made publicly when
- 3 they had the systems privatization process going on,
- 4 sat through most of those hearings, and I think that
- 5 have learned a good deal about it, and I think that we
- 6 have -- that with as long as we have mined potash in
- 7 this basin, which is basically in that zone, for some
- 8 55 years now, I think we have a very good understanding
- 9 of it.
- 10 I think the science is very clear, I think
- 11 that the National Academy's endorsement of the project
- 12 is very clear. I think that those people that I
- 13 represent I believe support this project very, very
- 14 strongly, and I think it's time to certify the project
- 15 and certify WIPP, and I encourage you to do so at the
- 16 earliest point.
- 17 Thank you very much.
- 18 MR. WILSON: Thank you very much for coming.
- 19 Sorry to get you as soon as you walked in the door.
- 20 REPRESENTATIVE HEATON: That's quite all
- 21 right. It happens frequently.
- MR. WILSON: You're well experienced, then.
- 23 Has Senator Leavell come yet?
- Okay.
- Next I had Mike Brown. Is he here?

- 1 (Note: No response.)
- 2 Chris Pflum, if I pronounced that right.
- 3 Did I mess up the pronunciation?
- 4 MR. PFLUM: It's pretty good. Most people
- 5 don't get it.
- A half hour. Away ahead of schedule here.
- 7 I'm wearing my Santa Fe jacket. I guarantee
- 8 you won't see anybody in Santa Fe wearing a Carlsbad
- 9 jacket when you go up there.
- 10 MR. WILSON: Maybe we can get somebody to
- 11 come up.
- 12 MR. PFLUM: My name is Chris Pflum. I live
- 13 in Carlsbad, New Mexico, and I speak on behalf of
- 14 myself and my employer Roy F. Weston, Incorporated.
- Weston employs more than 2,800 staff,
- 16 representing diversified disciplines in environmental
- 17 fields. Here in Carlsbad we provide technical and
- 18 management support services to the U.S. Department of
- 19 Energy Carlsbad Area Office.
- 20 I commend the EPA for its thorough review of
- 21 the DOE application for the certification of the Waste
- 22 Isolation Pilot Plant. Anyone who accuses the EPA of
- 23 blindly endorsing the WIPP has not taken the time to
- 24 read EPA's proposed rule and supplementary reviews.
- 25 Besides accurately and succinctly translating complex

1 information into plain English, you communicated your

- 2 review in a way that leaves no doubt as to where you
- 3 stand on the WIPP project. Such frankness is a
- 4 refreshing relief from the circumlocution that often
- 5 plagues regulatory agencies.
- 6 Of course, I'm not speaking about EPA at all
- 7 when I say that.
- 8 MR. WILSON: I can tell.
- 9 MR. PFLUM: Hardly a blind endorsement, the
- 10 EPA's rules and analysis clearly demonstrate that you
- 11 have read and understand each of the 24,000 pages that
- 12 compose the application and its appendices. I also
- 13 commend the EPA for its decisiveness.
- 14 With the WIPP'S period of performance set at
- 15 10,000 years, anyone can dream up scenarios that would
- 16 cause WIPP to fail. The most popular scenario,
- 17 inadvertent human intrusion, has inspired the
- 18 imagination of many WIPP opponents. Some claim that
- 19 humans would inject brine into a borehole, the borehole
- 20 casing would fail, the brine would then find its way
- 21 into the repository, it would dissolve the waste, and
- 22 then find it's way back out again.
- 23 Page 2.
- 24 More recently, the same opponents argued that
- 25 someone would drill into WIPP using air, rather than

- 1 fluid, and thereby create releases that are,
- 2 supposedly, much larger than what was modeled in the
- 3 Compliance Application.
- 4 Although the EPA has courageously confronted
- 5 these doomsayers, I guarantee that you will hear more
- 6 from them. The desperate opponents of the WIPP are
- 7 like drowning men grasping at straws. They are driven
- 8 to concoct even more preposterous ways for people to
- 9 inadvertently exhume waste that is buried some 2,100
- 10 feet below the earth's surface.
- I urge you not to take these fairy tales too
- 12 seriously. Heed the words of the National Academy of
- 13 Sciences who stated, and I quote: We consider that it
- 14 is not possible to assess the probability of human
- 15 intrusion into a repository over the long term, and we
- 16 do not believe that it is scientifically justified to
- 17 incorporate alternative scenarios of human intrusion
- 18 into a risk-based compliance assessment.
- 19 The alternatives they were speaking of are
- 20 alternatives to what already appear in 191.
- 21 That's the -- Let's be honest. Could you
- 22 jimagine any EPA administrator refusing to certify the
- 23 WIPP because some person thousands of years from now
- 24 could inadvertently exhume more waste than the
- 25 regulations allow?

- 1 Finally, I commend the EPA for giving the
- 2 public so many opportunities to comment on the WIPP.
- 3 Clearly, the EPA seeks and wants to accommodate the
- 4 will of the people. By the same measure, the EPA
- 5 should obey our elected officials, who speak for the
- 6 people. In the Land Withdrawal Act Congress clearly
- 7 expresses the public's desire for EPA to expeditiously
- 8 certify the WIPP as a disposal site for as much as 6.2
- 9 million cubic feet of transuranic wastes. The EPA now
- 10 proposes to certify each of some 570 waste streams that
- 11 are destined for disposal and introduce a 30-day
- 12 comment period prior to the certification of each
- 13 stream. If we optimistically assume that a
- 14 certification rule can be completed in three months,
- 15 which would be a record for any regulatory agency, it
- 16 would take the EPA 142 and 1/2 years to certify all the
- 17 waste streams. Even if EPA could simultaneously
- 18 certify 10 waste streams at a time, the process would
- 19 take more than 14 years.
- 20 I cannot find a passage in the Land
- 21 Withdrawal Act that gives the EPA authority over the 21
- 22 sites to generate transuranic radioactive waste.
- 23 Perhaps EPA cannot find it, either, otherwise you would
- 24 have have credited Congress rather than an obscure
- 25 provision in your own regulation as a source of your

- 1 authority over waste streams and waste sites.
- 2 The DOE has adequately regulated itself in
- 3 this area, and Congress has never indicated that EPA
- 4 could do a better job. I, therefore, recommend that
- 5 you not create any more certification hurdles that
- 6 would protract the disposal of transuranic radioactive
- 7 waste. Rather, practice what you preach in the opening
- 8 pages of your proposed rule. There you say: The EPA
- 9 is committed to the intent of the Congress clearly
- 10 expressed in the Land Withdrawal Act.
- 11 Thank you for the opportunity to speak.
- 12 MR. WILSON: Thank you very much for coming.
- 13 If you want to join us in Santa Fe and wear
- 14 your Carlsbad jacket, we will break the rule of only
- 15 being allowed to testify once.
- 16 MR. LEAVELL: State Senator Carroll Leavell.
- 17 I understand you --
- 18 MR. WILSON: Yes, Senator. Please come
- 19 forward.
- 20 SENATOR LEAVELL: Thank you very much. I
- 21 appreciate the opportunity to testify here this
- 22 evening.
- 23 I'm State Senator Carroll Leavell, and I
- 24 serve State Senate District 41. State Senate District
- 25 41 consists of the south half of Eddy County and the

- 1 south half of Lea County. It includes the south half
- 2 of Carlsbad, Loving, and down the Pecos Valley, the
- 3 south half of Hobbs, and Eunice. The WIPP site lies in
- 4 the center of this senate district that I represent.
- 5 My home is in Jal, which is approximately 42 miles
- 6 southeast of the WIPP site.
- 7 I also serve on the Radioactive and Hazardous
- 8 Materials Interim Legislative Committee. And I might
- 9 say that on that committee we have had approximately
- 10 six meetings, and always at every meeting had some
- 11 testimony and discussion of the Waste Isolation Pilot
- 12 Project.
- 13 I have followed the Waste Isolation Pilot
- 14 Project from its initial conception to development and
- 15 through the previous Environmental Impact Statements.
- 16 I might add that I was reared in Southeast
- 17 New Mexico and have lived here most of my life, and
- 18 watched the development of this prooject. I continue
- 19 to support the continued phased development of WIPP to
- 20 receive transuranic waste from the Department of Energy
- 21 facilities in 1998.
- 22 While i was elected by the citizens of
- 23 District 41, I am concerned for all the citizens of New
- 24 Mexico. My greatest concern is for the waste held in
- 25 temporary storage, such as in Los Alamos, New Mexico. I

- 1 had the opportunity early this year to spend a day at
- 2 that facility and look at their current storage and how
- 3 everything is being held at that point. The
- 4 transuranic waste has been developed and simply will
- 5 not go away. It is not acceptable to leave the
- 6 transuranic waste in temporary storage rather than
- 7 transporting it to the WIPP for permanent storage.
- 8 The long-term solution is necessary and
- 9 available. The no-action alternative has been too high
- 10 a risk to the health of our people and the cost to the
- 11 taxpayers.
- 12 There are approximately 53 million people
- 13 within a 50-mile radius of the 24 sites around the
- 14 country where the transuranic waste is stored. This is
- 15 simply not an acceptable risk. The total WIPP project
- 16 has been well thought out.
- 17 I support the transporting of transuranic
- 18 waste by truck. It has been well tested and proven to
- 19 be safe. The TRUpac II containers are proven strong
- 20 and safe during extensive testing programs. The trip
- 21 plans required are more stringent than any required by
- 22 any other trucking operation. The State has worked
- 23 together to design the shipping routes of the WIPP.
- 24 The trucks are monitored and in constant communication
- 25 along the route.

1 Again, the planning and safety requirements

- 2 exceed anything in the trucking industry.
- 3 During the past fall the Radioactive and
- 4 Hazardous Materials Legislative Committee heard
- 5 testimony from the results of the survey that was
- 6 funded by the University of New Mexico. This has been
- 7 an ongoing survey that started some years ago to test
- 8 the support for the Waste Isolation Project throughout
- 9 New Mexico. It was interesting that the strongest
- 10 support for the project comes from Eddy County and from
- 11 Los Alamos County.
- 12 Los Alamos County was certainly
- 13 understandable. They have barrels of transuranic waste
- 14 stored in trenches and above the ground in buildings.
- 15 A spill or leak can cause health injury to the local
- 16 population, and it also exposes persons below,
- 17 throughout the Rio Grande Valley, should the
- 18 transuranic waste reach the water table, to affect the
- 19 entire Rio Grande Valley. This would include the
- 20 populations of Santa Fe, Albuquerque, Belen, Los Cruces
- 21 and El Paso.
- 22 Again, interesting that the closer to Eddy
- 23 County the stronger the support. I can only assume that
- 24 the local population has taken the time and the
- 25 interest to investigate and understand the Waste

- 1 Isolation Pilot Project.
- 2 In this area you truly have a reverse of the
- 3 "not in my back yard" syndrome.
- 4 I might add that the strongest opposition to
- 5 the project came from the northeast part of the state,
- 6 and I found it interesting that would be the Santa Fe
- 7 to Raton corridor. And as such I can only assume that
- 8 the concern is with the transportation. Some argue
- 9 that it's better to leave the transuranic waste in
- 10 temporary storage, rather than transporting it to the
- 11 WIPP site for permanent disposal. These
- 12 recommendations are not acceptable because they
- 13 provide a short-term storage solution. Eventually, a
- 14 long-term solution is necessary. It probably will be a
- 15 greater -- it will probably be at a greater cost to
- 16 taxpayers and at a greater health risk. Additionally,
- 17 it would have the greatest long-term health impacts to
- 18 store on a temporary basis. It would have a potential
- 19 of 2235 deaths over 10,000 years as predicted.
- 20 This, again, is simply unacceptable and an
- 21 unnecessary risk.
- 22 Some argue that there's no way to predict or
- 23 prevent human intrusion into the repository area, which
- 24 would bring radioactivity into the human environment.
- 25 The Performance Assessment done for the Second

- 1 Supplemental Environmental Impact Statement clearly
- 2 shows there were no releases to the environment under
- 3 any of the scenarios considered except for waste
- 4 brought to the surface by multiple drilling.
- 5 Even those amounts of waste material do not
- 6 exceed the radioactivity limits of EPA regulations. In
- 7 all considerations the WIPP is technically safe and
- 8 cannot affect our health adversely.
- 9 The Waste Isolation Pilot Project near
- 10 Carlsbad was selected for many good reasons. Deep
- 11 geologic disposal for isolating nuclear waste is based
- 12 on the large body of U.S. and international research.
- 13 Let's put this research knowledge to good use
- 14 and not waste it. The Waste Isolation Pilot Project
- 15 repository, almost a half mile underground, is carved
- 16 out of a 225-million-year-old bedded salt formation.
- 17 These salt beds are found only in geologic regions that
- 18 lack significant flows of ground water, thus reducing
- 19 the possibility that waste could be carried out of the
- 20 repository by natural process.
- 21 Additionally, salt tends to heal itself when
- 22 mined. After several hundred years the salt bed is
- 23 expected to close upon the waste and permanentlys lock
- 24 it deep below the surface.
- 25 The repository, personnel, transport,

- 1 emergency programs are all in place for safe disposal
- 2 of the transuranic wastes at the WIPP. I ask you to
- 3 act favorably.
- I appreciate the opportunity to be with you,
- 5 and thank you for the opportunity to give my testimony.
- 6 MR. WILSON: Thank you, Senator, for coming.
- 7 Mike Brown.
- 8 MR. BROWN: Hello. I'm Mike Brown, and I've
- 9 worked on various aspects of the WIPP project for the
- 10 last 13 years. Over that period of time I've seen the
- 11 life cycle cost of the WIPP project add another billion
- 12 dollars to that life cycle cost with no added safety or
- 13 no reduced risk to the public or anything.
- 14 What I'd like to do is thank the EPA for
- 15 putting out their draft rulemaking and finally
- 16 recognizing that we're close and have met all the
- 17 requirements and have exceeded a lot of the
- 18 requirements that the law established, but one of the
- 19 conditions, Condition 3, is one of those things that's
- 20 going to add to the cost of the project without adding
- 21 any value to the project; and that is, the condition
- 22 that requires a 30-day public comment period after the
- 23 audits of the site, and when we're getting ready to
- 24 certify the assignment to ship waste or added waste
- 25 streams.

1 EPA and DOE have the technical expertise, and

- 2 the EPA, through the draft rulemaking, accepted the
- 3 standards that DOE had worked with EPA and various NMED
- 4 and EEG to establish. And when they accepted those
- 5 standards, they have that expertise in-house to ensure
- 6 that we meet those standards, and the addition of a
- 7 public comment period will not do anything to add value
- 8 to the thing, it will just add a lot of cost and delay.
- 9 And time is money.
- 10 The next thing I'd like to say is that as a
- 11 citizen in New Mexico -- as you go through these
- 12 hearings, you are going to hear a lot of people or
- 13 different groups say they represent the citizens of New
- 14 Mexico. I am a citizen of New Mexico, and I'm here to
- 15 say that they don't represent me, necessarily, and so
- 16 take that into consideration when they speak.
- 17 The next thing is I'd like to address some of
- 18 the hazards of the plutonium, because a lot of our
- 19 detractors and opponents have said, "Well, plutonium is
- 20 one of the most hazardous substances known to man," and
- 21 all kinds of things. And with that, I'd like to say
- 22 that over the past 50 years, 17,000 workers have dealt
- 23 with plutonium and handled it and worked in the
- 24 different facilities where this plutonium was
- 25 generated, and none of the deaths of those people have

- 1 been associated with plutonium-related deaths.
- 2 And so that's part of it.
- Most of the hazards come from inhalation,
- 4 contamination to open wounds, or ingesting it, and when
- 5 it comes in sealed, certified containers, that part of
- 6 it is not going to be a hazard to us, and we can
- 7 control that, and we've worked with it.
- 8 You have all dealt with many other numerous
- 9 safety hazards and toxic chemicals. Alcohol has -- and
- 10 stuff. We all know people that have died in
- 11 alcohol-related deaths, drug-related deaths. We
- 12 haven't killed anyone related to plutonium-related
- 13 deaths.
- 14 So I think we can handle it safely.
- 15 I would just like to reemphasize that the
- 16 drums coming to WIPP will hold anywhere from the
- 17 average of 8 to 16 grams of plutonium. That is about a
- 18 chiclet size through a 55-gallon drum. It is not like
- 19 finding -- like a lot of other people that are pointing
- 20 out different things about WIPP have said. It's
- 21 distributed on different materials and stuff, and it's
- 22 not easily removed from that material, so that's why
- 23 they have scrapped this material and called it waste,
- 24 and would like to send it to WIPP.
- 25 The last point I would like to make is that

- 1 this is a problem that many people hope will get better
- 2 by just leaving it and not doing anything. WIPP is a
- 3 movement towards the solution. If opening WIPP is a
- 4 movement in that direction, then we need to go ahead
- 5 and move forward, because the longer we wait and the
- 6 longer we delay and the longer we keep adding to all
- 7 the reports and studies are not going to make this
- 8 problem go away. It will continue to fester, and when
- 9 it finally erupts, it will be more costly and more
- 10 hazardous to everybody, workers and public, to resolve.
- 11 So I just want to reemphasize that it's time
- 12 to act and continue on, and I'd like to see the
- 13 rulemaking go through and continue.
- 14 Thank you.
- 15 MR. WILSON: Okay. Thank you very much for
- 16 taking the time to come tonight.
- 17 The next scheduled witness is Paul Robinson.
- 18 Is he here?
- 19 MR. ROBINSON: Thank you. I'm Paul Robinson,
- 20 president of the Sandia National Laboratory, and it is
- 21 a great pleasure for me to appear on behalf of Sandia
- 22 and on behalf of all the men and women who have worked
- 23 on this project for so long.
- 24 In 1975 Sandia was asked by the then Atomic
- 25 Energy Commission to assume the scientific

- 1 responsibility over what became the Waste Isolation
- 2 Pilot Plant. We believed this mission was an important
- 3 one and agreed to the role, first because it was very
- 4 consistent with Sandia's mission to try and perform
- 5 exceptional service in the national interest. It
- 6 clearly is the necessary first step in addressing a
- 7 major problem in resolving the legacy of nuclear
- 8 weapons development; namely, the transuranic waste
- 9 disposal. We had been a major player in weapons
- 10 development and had the talent to assist in the waste
- 11 disposal, particularly the areas of expertise of the
- 12 geotechnical skills, high consequence analyses, and
- 13 risk assessment methodologies which we had pioneered in
- 14 the early days, and we have been employed in the
- 15 Application you have seen.
- 16 Our involvement since 1975 has included,
- 17 first, site characterization, conceptual design,
- 18 scientific experiments, and the Performance Assessment
- 19 work.
- The project has, in fact, been one of the
- 21 longest, continuous projects in the history of the
- 22 Sandia Laboratories, and our laboratory was established
- 23 during the Manhattan Project of World War II. We have
- 24 been involved for over 22 years, and the price tag for
- 25 the work we have done in support of this repository has

- 1 been \$475 million over that time, with the peak being
- 2 \$53 million in a single year with 134 full-time people
- 3 employed in the work.
- 4 I think it's fair to say that this site has
- 5 received more intense scrutiny and scientific study for
- 6 a longer period of time than any other comparable
- 7 activity in the history of our country.
- 8 We have worked closely with the folks here in
- 9 Carlsbad and with the community and with the state, and
- 10 I would like to say on behalf of Sandia we have
- 11 appreciated the open minds with which the people have
- 12 considered our work both locally, and now, at this
- 13 stage, nationally.
- 14 All of the work has now come to fruition in
- 15 the compliance certification issues each of you are
- 16 addressing here today.
- 17 A number of folks have devoted their entire
- 18 careers to this work. You are probably familiar with
- 19 Wendell Weart, who has been one of the folks touring
- 20 the site, who has spent his second scientific career on
- 21 this work.
- The repository has a dimension of 16 miles
- 23 within -- 16 square miles, with a waste area of 200
- 24 acres about a half a mile underground, an operational
- 25 lifetime of 35 years, and calculations which have

- 1 filled some of our largest computers and have employed
- 2 more skills, technical skills than any other comparable
- 3 project, with people trying to analyze from every
- 4 possible direction the questions which came forward.
- 5 The site was selected in December of 1975;
- 6 the characterization report and the conceptual design
- 7 report completed in '78. The first Environmental
- 8 Impact Statement was done in 1980, which then was a
- 9 Sandia responsibility, the first half in 1981.
- 10 Extensive in situ studies were carried on
- 11 from '83 through 1995, when they were completed.
- We were assigned the Performance Assessment
- 13 role in 1985, and the result is the EPA preliminary
- 14 rule on the WIPP certification in October of last year.
- No doubt we all recognize the controversial
- 16 nature of the issues, and we've tried to adopt, as a
- 17 laboratory, a policy of openness. I think we have set
- 18 new standards for ourselves, and I hope they will be
- 19 useful for other similar projects in the future with
- 20 the level of information which has been provided. CD
- 21 Roms were made available with all the analyses in which
- 22 we said to the community and anyone interested: Here
- 23 are all the analyses we believe that supports this
- 24 certification. If there's anything you feel we have
- 25 not done, please, we would like your input.

1 That information has been made available now

- 2 through the World Wide Web.
- 3 We've also characterized the work with
- 4 thorough scientific reviews. The National Academy of
- 5 Science review is a hallmark for us of the technical
- 6 excellence that is involved in the work.
- We have also carried out a number of
- 8 international peer reviews and a review by an
- 9 environmental evaluation group, the EEG. And over this
- 10 22-year history there have been lots and lots of
- 11 Scientific Journal publications and peer review
- 12 journals.
- 13 EPA, of course, has the ultimate review of
- 14 the adequacy and the soundness of the work in
- 15 demonstrating the long-term safety of the repository.
- 16 Our review of the work done has convinced us that you
- 17 do have a very thorough understanding of the issues
- 18 that are involved, and we think you have addressed
- 19 those issues in a very conservative fashion, as is
- 20 appropriate for the task you've been assigned.
- I think the analysis, along with our
- 22 analysis, showed that WIPP complies with the standards
- 23 with a large margin of safety, which is appropriate
- 24 for such a project. Sandia believes that WIPP will be
- 25 a safe repository for the long-term isolation of

- 1 radioactive waste.
- 2 Our studies show the the repository is so
- 3 robust that it will comply even with the stringent
- 4 regulations, even in the unlikely event of the
- 5 human-intrusion scenarios. This clear assurance of
- 6 compliance I think means we have successfully completed
- 7 the investigatory phase and it's now time to move
- 8 forward to certify the WIPP and to operate it for its
- 9 intended purpose.
- 10 On behalf of Sandia, I'd like to strongly
- 11 recommend that EPA certifies WIPP as provided in the
- 12 draft rule.
- 13 Thank you very much.
- MR. WILSON: Thank you, Mr. Robinson, for
- 15 coming, and all the good work by you and your very
- 16 accomplished staff.
- MR. ROBINSON: Okay. Thanks.
- 18 MR. WILSON: I'm going to have one more.
- 19 Is Paul Sanchez here? Paul Sanchez.
- 20 (Note: No response.)
- 21 If not, we are a little ahead of schedule.
- 22 I'm going to take a break at this point.
- 23 (Note: A discussion was held off the record.)
- 24 MR. WILSON: We have a couple of people who
- 25 signed up that I thought we would try and fit in now,

- 1 if we could, before we take the break.
- 2 Mr. Loftus?
- 3 MR. LOFTUS: Welcome.
- 4 My names is Charles M. Loftus, and I seem to
- 5 be the first person to speak against the WIPP.
- I have no objection to the underground or on
- 7 the road. My problem is with the building. They spent
- 8 ten years on the underground and transportation, but
- 9 they haven't done anything with the problems that I
- 10 wrote to the first Secretary of Energy eleven years
- 11 ago, which were in the plans of the building.
- 12 They never put concrete walls on the exterior
- 13 south side of the building. It's still the metal
- 14 siding.
- We were out there in July of this year, and
- 16 the person said, "Well, what are you worried about?
- 17 It's the same metal siding used onall commercial
- 18 buildings."
- 19 This is not a commercial building, it's a
- 20 waste handling plant. It requires concrete walls on
- 21 the outside the same as it has on the inside. It has
- 22 six- and eight-foot concrete walls on the inside.
- 23 Outside is metal.
- The man says, "Well, if we put a hole in it,
- 25 we will just shut down the whole operation until these

- 1 repairs are made."
- 2 That is Rocky Flats.
- We are talking about opening something that
- 4 is not ready.
- 5 The other thing was the WIPP was designed to
- 6 handle all barrels, leaky ones, corroded barrels, and
- 7 the good barrels. WIPP theirself has said: No leaky
- 8 barrels will come on the site. We'll send them back.
- 9 The reason for that is they told us again on
- 10 the 31st of July they would not be ready to handle that
- 11 type of material until the year 2006 or 2008, because
- 12 the section of the building that handles that has the
- 13 same problems that were in the design eleven years ago.
- 14 The way I look at it, the site is not ready
- 15 to open. You can't bring material into the building to
- 16 unload it. They have to unload it out in the yard with
- 17 fork lift trucks, bring it in the so-called air locks
- 18 and into the building.
- 19 The design was, and it has been wrong since
- 20 Day One, and they know it.
- 21 The air locks were built 90 degrees from the
- 22 building. There's no way to back your trucks into that
- 23 110-foot, you know, long air lock to get in the
- 24 building.
- 25 From Day One we told them concrete walls,

- 1 concrete air locks parallel with the building, drive
- 2 your truck in, open your doors, unload safely into the
- 3 building. They have opted to do none of this.
- 4 So the conditions that I wrote to the Admiral
- 5 eleven years ago -- He flew in here to town and fired
- 6 everybody that was supervisor out there, because they
- 7 told him they were ready to open.
- 8 I take responsibility partly for being
- 9 delayed for ten years, and I'm still fighting it,
- 10 because I consider until they put the concrete walls up
- 11 and do what's needed to bring these leaky barrels,
- 12 which for the last five years everybody has said the
- 13 barrels are leaking, they got to go underground. They
- 14 can't handle them. They won't handle them until the
- 15 year 2006.
- 16 So why open a site that all you can bring in
- 17 here is good barrels that aren't leaking and aren't
- 18 corroded. Leave them where they are at. The ones to
- 19 worry about are the leaking barrels and the corroded
- 20 barrels. They can't handle them till 2006.
- 21 So let's go ahead and do what's needed out
- 22 there: Put up your concrete walls, get the site ready,
- 23 and when you open it, you can handle everything that's
- 24 needed to put underground.
- 25 Thank you very much.

- 1 MR. WILSON: Well, thank you for taking the
- 2 time to come.
- I noticed you have -- Do you have some
- 4 materials?
- 5 MR. LOFTUS: That is what I did at the last
- 6 EPA, just tells who I am and all about what happened in
- 7 the last ten years.
- 8 MR. WILSON: If you would like to give it to
- 9 us, or if you would like to send it in.
- 10 MR. LOFTUS: I will give it to her.
- 11 MR. WILSON: Okay. Thank you very much.
- 12 MR. LOFTUS: Okay.
- 13 MR. WILSON: Is Mr. Chuck Williams here?
- 14 Chuck Williams.
- 15 (Note: No response.)
- 16 MR. WILSON: Did Paul Sanchez come? Did Paul
- 17 Sanchez come?
- 18 (Note: No response.)
- 19 MR. WILSON: Bruce Baker?
- 20 MR. BAKER: My name is Bruce Baker. I work
- 21 for Technadyne Engineering Consultants. For ten years
- 22 I've worked for -- as a consultant to Sandia National
- 23 Laboratories Performance Assessment Group. I'm a
- 24 computational hydrologist. I work on the groundwater
- 25 flow problems at WIPP.

- 1 Rather than actually commenting on the
- 2 science that's gone into WIPP, I'll just mention that
- 3 after ten years of working on the project, this year
- 4 I've decided to move my family to Carlsbad. And I
- 5 think the WIPP is safe, and I encourage the EPA to go
- 6 forward with the rulemaking.
- 7 Thank you.
- 8 MR. WILSON: I have an E. Shirley.
- 9 (Note: No response.)
- 10 One more. Is Joe Archuleta here?
- 11 How about Ross Kirkes?
- 12 Sorry. We are fairly ahead of schedule, so I
- 13 think some people are probably planning to come later.
- 14 We will do this one and then take a 15-minute
- 15 break. Thank you.
- MR. KIRKES: My name is Ross Kirkes,
- 17 K-i-r-k-e-s. I'm from Carlsbad; I'm a lifelong
- 18 resident of Carlsbad. And I appreciate EPA's openness
- 19 to public input, and I'd like to take this opportunity
- 20 to discuss air drilling and its relationship to the
- 21 WIPP project.
- 22 Fluid or mud drilling is by far the most
- 23 common drilling method use at the Delaware Basin. Air
- 24 drilling technology has been around for more than 25
- 25 years and it offers economic benefits over fluid

1 drilling in certain site-specific -- when site-specific

- 2 characteristics are met.
- 3 The initial capital needed for air drilling
- 4 far exceeds that of fluid drilling due to the
- 5 additional expenses of air compressors and equipment,
- 6 but because of the faster penetration rates offered by
- 7 air drilling it results in less rig time and therefore
- 8 lower drilling costs. However, if the driller
- 9 anticipates in the interim any interruption in the air
- 10 drilling process, you would have to convert back to
- 11 fluid drilling, and, in doing so, you would diminish
- 12 the economic advantages that air drilling offers to
- 13 begin with. So you would probably be better off to
- 14 start with fluid drilling and stay with it.
- 15 In order to find out what's going on in this
- 16 area around the WIPP site, I personally conducted a
- 17 survey of over 30 drillers in the area. Out of these
- 18 30, 15 responded. In the 15 that did not respond,
- 19 several have gone out of business over the last ten
- 20 years, and several of the others have been absorbed or
- 21 bought out by the active companies.
- Thirteen out of those 15 responding claim
- 23 that they do possess and understand air drilling
- 24 technologies, but they all agreed they would not use
- 25 air drilling near WIPP. They cite the reasons such as

- 1 overlying water-bearing zones in the Rustler and the
- 2 potential or threat of pressurized brine between the
- 3 WIPP and the Castile. And probably the most important
- 4 reason they state they don't uses air drilling around
- 5 WIPP is the primary reason for using air is that it's
- 6 fast. In the formations near the WIPP they can drill
- 7 quite fast with conventional methods, with fluid, so
- 8 they don't have to incur those high costs of air
- 9 drilling, they simply use fluid and make the hole
- 10 quickly.
- 11 That is what they do.
- 12 In addition to this survey that I conducted
- 13 with the drillers, I also performed a records search at
- 14 the New Mexico Oil Concentration Division. And we
- 15 looked at every Well file within the nine townships
- 16 around the WIPP site. That included 767 well files,
- 17 324 square miles around the WIPP site.
- 18 There was absolutely no evidence whatsoever
- 19 of air drilling. None.
- So, with that, we expanded the scope even
- 21 further. We looked at 1400 well files, and we did find
- 22 two holes that were drilled, at least in part, with
- 23 air. These two holes I presume are the two Jim Amos
- 24 mentioned in his memo that is attached to the Attorney
- 25 General's analysis of air drilling. These were drilled

- 1 in 1979. And in that 16-mile radius of the WIPP, there
- 2 are 1401 wells and only two drilled with air.
- 3 Apparently they weren't very successful, or else the
- 4 industry would continue that practice.
- 5 In conclusion, I would like to say air
- 6 drilling is not conducted near the WIPP site. Two out
- 7 of 1400 certainly does not represent a current or a
- 8 well-used practice. The drillers use air drilling where
- 9 it's applicable, but only after they consider certain
- 10 site-specific characteristics such as dry formations
- 11 and areas in which they are certain there's no
- 12 opportunity to encounter water-bearing formations.
- 13 That is not the case near WIPP.
- 14 Thank you.
- 15 MR. WILSON: I just had one quick question.
- Do you know if there's anything happening
- 17 with the technology of air drilling that would make
- 18 those facts change in the future, that would make it
- 19 more economical?
- 20 MR. KIRKES: Certain small quantities of
- 21 water could be dealt with, but it's not the technology,
- 22 it's the economics, and oil companies operate strictly
- 23 based on that.
- 24 Stiff foams and certain coagulants may be
- 25 used to carry the cuttings to the surface using air,

- 1 but, again, you are talking about lots of expense, and
- 2 near the WIPP the holes drill quite easily and quite
- 3 straight to begin with using fluid. Water is cheap.
- 4 MR. WEINSTOCK: You have obviously done a lot
- 5 of work, and we appreciate your testimony, but if you
- 6 have any kind of written report, I just --
- 7 MR. KIRKES: Absolutely.
- 8 MR. WEINSTOCK: If you can submit one either
- 9 now or sometime during --
- 10 MR. KIRKES: I will. I will provide it
- 11 tomorrow.
- 12 MR. WEINSTOCK: Okay. Thank you.
- 13 MR. KIRKES: Thank you.
- MR. WILSON: With that we will take about a
- 15 15-minute break. It's 25 after 7:00 on my watch, so
- 16 about 20 of 8:00.
- 17 (Note: A recess was taken at 7:25 and
- proceedings resumed at 7:45 p.m.)
- 19 MR. WILSON: Okay. If we can get everybody
- 20 to sit down.
- Is Paul Sanchez here?
- MR. SANCHEZ: Yeah, I'm here.
- 23 What I'd like to do, I just found out you
- 24 called me, because I was ahead of the schedule. Just
- 25 to make sure I don't break up any continuity, I was

- 1 talking to Kathy, and Frank Hansen, and I was wondering
- 2 if they could go first and I could go after those two.
- 3 MR. WILSON: That is fine.
- 4 All right. We will jump -- Kathy Knowles. Is
- 5 that who you were referring to?
- 6 MR. SANCHEZ: Yeah.
- 7 MS. KNOWLES: Yes. That's me.
- I have a written statement that I am just
- 9 going to read from. I assume you want it when I'm
- 10 done.
- 11 MR. WILSON: I think if you could give it to
- 12 the reporter, that would help a lot.
- MS. KNOWLES: This goes down?
- 14 MR. WILSON: Look like it.
- MS. KNOWLES: That works. Thank you.
- Where's the light so I know when...
- 17 MR. WILSON: Right here.
- 18 MS. KNOWLES: My name is Kathy Knowles, and
- 19 this is my personal statement regarding the WIPP.
- 20 I am a senior member of the technical staff
- 21 at Sandia National Laboratories. I came to Sandia in
- 22 1993 from the University of California in Santa
- 23 Barbara, and I came specifically to work on the WIPP
- 24 project. One of the compelling reasons that I accepted
- 25 a position on this project was the logo that resides

- 1 on the bottom of every Sandia document. It says:
- 2 Exceptional Service in the National Interest.
- 3 Disposal of hazardous waste is a national
- 4 problem. Others have spoken more eloquently than I on
- 5 this very topic.
- 6 Within every person's lifetime, there are
- 7 relatively few opportunities to work on a program that
- 8 is of significant importance to the general population.
- 9 There's also few opportunities in which it is assured
- 10 that the work will be conducted according to the
- 11 highest scientific and ethical standards.
- 12 Because WIPP encompassed both these ideals, a
- 13 program which could benefit society at large and a
- 14 commitment that studies supporting this program would
- 15 be of the highest quality, I welcomed the opportunity
- 16 to participate in the evaluation of WIPP for permanent
- 17 disposal of transuranic waste.
- 18 My technical background is in mechanical
- 19 engineering, in which I hold a Bachelor of Science, a
- 20 Master of Science, and a Ph.D. I specialize in the
- 21 design and implementation of computer simulations of
- 22 transport processes, which is just a fancy way of
- 23 saying I build computer models and codes to predict
- 24 where contaminants will end up. I have also planned,
- 25 supervised, and conducted laboratory field experiments

1 to gather data used in these simulations. Over the

- 2 past ten years I have worked on engineering issues
- 3 relevant to heat transfer, offshore oil exploration,
- 4 contaminant transport in lakes and rivers, sediment
- 5 diffusion in estuaries, and, most recently, on several
- 6 transport issues included in the Compliance
- 7 Certification Application for WIPP.
- 8 Having developed computer models and codes
- 9 for a large spectrum of physical settings, I believe I
- 10 can offer an informed perspective on the validity of
- 11 the simulations of long-term WIPP performance.
- 12 In December of 1996 I was asked to work on
- 13 one of the release scenarios for the WIPP known as
- 14 spallings. Spallings is defined within the WIPP as one
- 15 of three processes leading to the release of solid
- 16 material to the surface during drilling of a
- 17 hypothetical exploration borehole into the disposal
- 18 areas. In the interest of time, I won't be giving any
- 19 other information on the technical details, but will
- 20 instead talk in general terms about the scientific
- 21 studies that were conducted to demonstrate that
- 22 releases of solid material due to spallings will, in
- 23 fact, not pose a threat to public safety.
- 24 At the request of DOE, staff from Sandia
- 25 subjected the spallings process to complete and

- 1 vigorous evaluation during the months between December
- 2 1996 and April, 1997. This evaluation included
- 3 assessment of the assumptions included in the CCA's
- 4 design and implementation of experiments on waste forms
- 5 and properties, consultation with oil industry
- 6 professionals on gas blow-out processes, and
- 7 development of computer codes and models to predict the
- 8 outcome should an inadvertent intrusion occur. We
- 9 spent more than 10,000 hours of time on this program,
- 10 and demonstrated that releases due to spallings would,
- 11 in fact, be quite small.
- 12 I consider my contribution to this program to
- 13 be one of the highlights of my professional career.
- 14 Computer simulations of spallings releases
- 15 were only one part of this large effort. As I said
- 16 before, the calculated releases during the spallings
- 17 events were shown to be very small. There are a
- 18 number of processes that will act to limit releases
- 19 which were not included in the calculations.
- 20 Principal among these are controls imposed by the
- 21 drilling operator, and the inherently massive nature
- 22 of the waste itself. As a builder of models, I can
- 23 assure you that these are very difficult processes to
- 24 capture in a computer code, and that is the only reason
- 25 they are not included in the models used to date. As an

- 1 engineer, I can also assure you that these processes
- 2 will mitigate releases to the surface.
- 3 It is the task of an informed researcher to
- 4 merge predictions of simplified processes that we can
- 5 model with the more complex world in which we live.
- 6 The notion of an uncontrolled gas blowout is not
- 7 consistent with practice in the Delaware Basin.
- 8 Standard --
- 9 Standards -- Am I almost out of time?
- 10 MR. WILSON: You have --
- 11 MS. KNOWLES: Okay. Then I'm going to skip a
- 12 paragraph.
- 13 The evidence that WIPP is a safe site for the
- 14 permanent disposal of transuranic waste is
- 15 overwhelming. To find otherwise is to acquiesce to
- 16 those who base their opposition to WIPP on irrational
- 17 fears and similar motives.
- In the end, it is my hope that reason will
- 19 prevail and that the exceptional work performed on the
- 20 WIPP project comes to the only reasonable conclusion,
- 21 and that is, to open WIPP.
- 22 MR. WILSON: Thanks. If you would leave this
- 23 on the table, we would make sure --
- MS. KNOWLES: Okay.
- MR. WILSON: Thanks very much.

- 1 Frank Hansen. Okay.
- 2 MR. HANSEN: This is a personal statement,
- 3 although I work for Sandia National Laboratories. I am
- 4 a member -- I'm a principal member of their technical
- 5 staff. I have a B.S./M. S. in civil engineering and a
- 6 PhD. in geology and tectonophysics, and I've been a
- 7 professional engineer since 1978. I have over 20 years
- 8 exploring natural and experimental deformation of
- 9 engineering and natural materials. in civil
- 10 engineering, I emphasize structures, mechanics and
- 11 materials. My geotechnical applications have ranged
- 12 from the first order of structures of the earth to the
- 13 micromechanical processes.
- 14 I've been intimately involved in the WIPP
- 15 project since its inception, working since 1974 on the
- 16 thermomechanical testing of salt from the exploratory
- 17 drillholes AEC 7 and 8 and ERDA 9. My research and
- 18 development specific to the WIPP is well documented in
- 19 something like 40 plus technical publications that have
- 20 something to do with the relationship and the
- 21 experimental deformation of salt. I believe I have
- 22 personally tested and examined more salt than anyone in
- 23 the world.
- Now, based on this breadth of personal
- 25 experience and an abiding appreciation for the problem

1 at hand, I testify here that I feel strongly that the

- 2 WIPP provides a sound, robust repository for the
- 3 disposal of the nation's transuranic waste.
- 4 Now, within this protocol of public comment
- 5 on the WIPP, I would like to focus on one topic
- 6 particularly germane to the inadvertent drilling into
- 7 the site that received some spectacular press lately.
- 8 To review, it has been postulated that at
- 9 some future date there exists a remote possibility that
- 10 a drilling operation may penetrate the site. If
- 11 several other low probability assumptions are invoked,
- 12 it could be calculated that degraded waste material
- 13 spalls into the drill string and out the hole to the
- 14 surface -- at least theoretically.
- When taken all together, these contributing
- 16 assumptions have led to the largest theoretical
- 17 releases between one and two orders of magnitude below
- 18 the EPA limit.
- 19 My position regarding impact of human
- 20 drilling is this: It will be impossible to extract any
- 21 appreciable material from the repository by way of a
- 22 drilling intrusion. This conclusion is based on a
- 23 large body of recent work, much of which is documented
- 24 in a reference cited as Hansen, et al. 1997. It's
- 25 based on the consideration of the state of the waste

- 1 over time has led to the unequivocal conclusion that
- 2 crushed, compacted, cemented, partially degraded
- 3 55-gallon drums are not primary candidates for
- 4 extraction through a borehole.
- 5 As these fourr artist's renderings of the
- 6 underground show, at times zero you have this excavated
- 7 geometry with that type of material packing in the
- 8 underground.
- 9 The next slide shows -- these are based on
- 10 rigorous scale model calculations and field evidence.
- 11 In 12 years time the salt compacts the waste.
- 12 Next one.
- In 50 years time the original repository room
- 14 is one half its original height. In this time there's
- 15 only minimal degradation of the material.
- 16 These are facts.
- 17 And the last, the last slide shows at 1,000
- 18 years plus. There is some conjecture at what it might
- 19 look like, but I would assert that long before any
- 20 appreciable degradation occurs, the waste will be
- 21 reduced to less than half its original height. And, as
- 22 noted by the NRC report, in a nearly dry repository,
- 23 degradation is minimal.
- 24 And this fact is borne out by natural analogs
- 25 from ancient salt mines where metal, ceramics, and

1 organic materials have been encapsulated in salt for

- 2 millenia.
- In addition, the blocky, heterogeneous
- 4 architecture of compacted waste inventory is not
- 5 conducive to gas-driven transport under any
- 6 circumstances.
- 7 As a concluding remark, I would like to say I
- 8 appreciate the opportunity to make a personal public
- 9 comment on this important issue at this historic time.
- 10 The National Academy of Sciences had the story correct
- 11 back in 1957 when they identified the storage in salt
- 12 as a scientifically sound solution to close the
- 13 nuclear cycle. Opening WIPP is an overdue first step
- 14 towards cleaning up the nuclear legacy.
- 15 MR. WILSON: Thank you very much for your
- 16 testimony.
- 17 Next is Mary Ellen Klaus.
- 18 MR. SANCHEZ: I'll go next.
- 19 MR. WILSON: I'm sorry. I was just going
- 20 through the list.
- 21 MR. SANCHEZ: Okay. My name is Paul
- 22 Sanchez. I am speaking as a private individual who
- 23 resides here in Carlsbad raising two small children,
- 24 and have a grandchild every year or two, as well.
- I have a Bachelor of Science degree in

- 1 geology from Humbolt State University in Northern
- 2 California, and a Master's degree in geology from
- 3 Northern Arizona University. These are two very
- 4 environmentally conscious schools -- I would say
- 5 extremist in some cases -- and I've come to be very
- 6 environmentally conscious myself on all the projects I
- 7 worked on. And I worked in California on assessing the
- 8 seismic safety of hazardous waste facilities. When I
- 9 moved out here, I again took that stance,
- 10 and I still continue to do so working for the
- 11 scientific advisor to the Department of Energy. I work
- 12 for Sandia National Labs.
- 13 It's been my observation over the years that
- 14 despite -- notwithstanding the credibility of our P. A.
- 15 that there's a whole lot of intuitive reasons for
- 16 believing the viability of the WIPP project. It's also
- 17 been my observation that a lot of rational and
- 18 non-biased scientists, geologists, and related
- 19 disciplines have the same opinion, through informal
- 20 discussions with the New Mexico Geological Society, and
- 21 friends and associates that still work in the field
- 22 that I keep in contact with.
- 23 Anyway, it makes me very proud to observe
- 24 after reading the EPA proposed ruling that you guys
- 25 gave the WIPP project a fair assessment, and it appears

1 ruling in favor of the project, a lot of issues that

- 2 were outstanding, you guys ruled in favor of.
- For the route that follows, I'm going to
- 4 quote Mark Twain. He said: Why shouldn't the truth be
- 5 more strange than fiction, because fiction, after all,
- 6 has to make sense.
- 7 Well, I think some of the political agendas
- 8 that will come to the surface during the comment period
- 9 will be speculative and perhaps nonsensical, so, as a
- 10 citizen and professional, I worry about how these
- 11 outstanding issues will be handled, and I hope the EPA
- 12 will again give the WIPP project a fair shake.
- 13 MR. WILSON: Okay. Thank you for coming.
- 14 There's one other person we skipped over
- 15 earlier.
- Joe Archuleta. Is he here?
- 17 Hi.
- 18 MR. ARCHULETA: My name is Joe Archuleta. I
- 19 have a Bachelor's degree in civil technology from New
- 20 Mexico State University. My family and I live in
- 21 Carlsbad, and I work for Sandia National Laboratories.
- 22 I have been working as a quality assurance engineer
- 23 since I became assigned to the WIPP project in 1994.
- 24 I am currently the assessment task leader, audits and
- 25 surveillance, supporting Sandia/WIPP-related work. I

1 am here as an individual to let the EPA and the public

- 2 know about our assessment program.
- 3 The Sandia/WIPP assessment program is based
- 4 on nuclear quality assurance requirements. We have
- 5 been very active in support of experimental activities
- 6 which have been identified by the DOE Carlsbad Area
- 7 Office as critical to the WIPP project. In fiscal year
- 8 1997 alone we performed 12 audits and 25 surveillances
- 9 of our contractors and of Sandia work. Our lead
- 10 auditors are trained to manage their audit teams so
- 11 that each auditor reviews assigned work activities to
- 12 assure that procedures, calibration test plans,
- 13 scientific notebooks, and software meet NOA standards.
- As assessment task leader, it's my
- 15 responsibility to ensure that we use our limited
- 16 resources and funding as efficiently as possible, and
- 17 because of our assessment program we have a high level
- 18 of confidence that we are doing the most scientifically
- 19 defensible work possible in support of the WIPP
- 20 project.
- 21 Thank you.
- 22 MR. WILSON: Thank you very much for that
- 23 testimony, and thanks for coming.
- Now we will try Mary Ellen Klaus. Is she here?
- 25 MS. KLAUS: Hello. My name is Mary Ellen

1 Klaus. I'm the Chairman of the Eddy County Republican

- 2 Party.
- 3 First I would like to sincerely thank you
- 4 all for choosing Carlsbad to have these hearings today.
- 5 As I am sure you are well aware, the opening of the
- 6 WIPP is a very important topic to the residents of
- 7 Southeast New Mexico.
- 8 You may be wondering why an officer of a
- 9 political party would be interested in testifying
- 10 today. You may be asking, "Isn't opening WIPP a
- 11 technical and scientific issue? What possible reason
- 12 could there be for a party official to want to speak
- 13 today?"
- 14 If the decision to open the WIPP were based
- 15 simply on good science, it would have been open years
- 16 ago, in my opinion. A large portion of our nation's
- 17 transuranic waste would safely be now underground,
- 18 rather than spread across the nation in temporary
- 19 sites.
- I wish it weren't necessary for political
- 21 activists such as myself to comment on what should be a
- 22 straightforward scientific decision; however, the
- 23 actions of WIPP's opponents have made the opening of
- 24 the WIPP a political rather than a scientific issue, to
- 25 a large extent.

1 For instance, our New Mexico Attorney General

- 2 has chosen, in my opinion much to the detriment of the
- 3 residents of New Mexico and our nation, to take action
- 4 to delay the WIPP's opening. Never mind that every
- 5 independent scientific review has declared it safe.
- 6 Never mind that it is vitally important to our nation.
- 7 These facts don't seem to matter. Some feel that by
- 8 twisting the truth they can incite many citizens to
- 9 oppose the WIPP, and some apparently feel that will
- 10 increase their political careers.
- 11 Opening the WIPP should be based on science,
- 12 not politics.
- In my limited time, I would like to discuss
- 14 how WIPP contributes to our national prosperity and
- 15 security, a topic on which I know the EPA is vitally
- 16 interested.
- 17 For over 50 years America's security has been
- 18 partially dependent on a strong nuclear deterrent. In
- 19 the past, because of a potential nuclear threat posed
- 20 by the Soviet Union, the United States deployed a large
- 21 number of nuclear weapons. Not only did this nuclear
- 22 umbrella protect us from overt aggression, but, in my
- 23 opinion, it also discouraged more covert aggression. I
- 24 feel to a large measure it has guaranteed peace in
- 25 Europe, Japan, and other region of the world. Under

1 the masterful leadership of Presidents Reagan and Bush,

- 2 our nation stood fast. We saw the collapse of the
- 3 former Soviet Union and the end of the Cold War.
- 4 Due to the changing international climate,
- 5 the United States now is reducing its stockpile of
- 6 nuclear weapons. It is also in the process of closing
- 7 up and cleaning up many of its nuclear sites across the
- 8 nation.
- 9 That is where WIPP comes in.
- 10 Many of these sites have been storing
- 11 transuranic waste, and TRU waste is a well-defined
- 12 by-product of nuclear weapons and manufacturing. I
- 13 wouldn't even try to attempt to talk about that at this
- 14 time, but, as a step in cleaning up and closing these
- 15 sites, TRU waste should immediately be sent to a final
- 16 resting place: WIPP.
- 17 As long as the WIPP's opening is delayed the
- 18 clean-up activities at these weapons sites will be
- 19 frustrated and likewise delayed. Without a final
- 20 resting place, TRU waste will continue to accumulate in
- 21 less protected, temporary places.
- 22 I understand the EPA is vitally interested in
- 23 cleaning up these sites. Without the clean-up, these
- 24 sites pose a potential long-term environmental problem.
- 25 It is fortunate for the WIPP that the federal

- 1 agency most concerned with environmental protection is
- 2 deciding WIPP's fate. It would be a shame if the EPA
- 3 delayed WIPP yet again. I know that won't happen,
- 4 because I feel the EPA clearly understands how
- 5 important WIPP is to the environment.
- I must speak from a layman's point of view.
- 7 As a layman, I put my personal trust for our safety now
- 8 and for the future in the hands of the highly
- 9 qualified, dedicated scientists and engineers who
- 10 helped develop and build the WIPP. They have worked
- 11 diligently to plan and implement safe procedures for
- 12 transporting the TRU waste across the country and into
- 13 the Carlsbad area, and for handling and storing TRU
- 14 waste at the WIPP site.
- I ask one thing of the EPA: Please review
- 16 all the evidence. Make your decision based on science,
- 17 not politics. If you do so, I am confident you will
- 18 conclude that WIPP is safe, vitally needed, and should
- 19 be opened now.
- Thank you.
- 21 MR. WILSON: Thank you very much for coming, and
- 22 for that testimony.
- 23 We have a couple of other people who signed
- 24 in here.
- 25 Chuck Williams. Is he here?

- 1 (Note: No response.)
- 2 MR. WILSON: Okay. And an E. Shirley. I
- 3 think it's E. Shirley.
- 4 (Note: No response.)
- 5 This is the list of -- We are going to double
- 6 check. That's the list of people we had. Is there anybody
- 7 else here who wanted to make a statement tonight that
- 8 hasn't had a chance?
- 9 For your information, we are here tomorrow
- 10 starting at 9:00 o'clock in the morning for most of the
- 11 day. Then we will be in Albuquerque on Wednesday
- 12 afternoon and evening and Thursday morning, and then in
- 13 Santa Fe Thursday afternoon and evening, and most of
- 14 Friday. So we will be spending all this week here in
- 15 New Mexico listening to testimony about this issue.
- 16 If any of you have friends or colleagues who
- 17 are interested in coming tomorrow, tell them we will be
- 18 here starting at 9:00 through most of the day, and if
- 19 they let us know, we will be able to fit them in
- 20 tomorrow.
- 21 Let's double -- hang on a second before
- 22 closing to see if any -- We did have a couple of
- 23 people who signed up who may have had to leave.
- 24 Julie?
- Okay. Unless there's somebody else who wants

1	to comment, we'll close the hearing for tonight and
2	start up again tomorrow morning at 9:00.
3	Thank you all for taking the time to come
4	out tonight. We appreciate it.
5	(Note: Proceedings adjourned at 8:20 p.m.)
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